AXMINSTER
POWER TOOL CENTRE

DGJ260
Petrol Line Trimmer and Attachments

951677

User Manual

Axminster Reference No: **DGJ260**

www.axminster.co.uk

Preface

This book explains how to operate the brush cutter right in detail. Before operating the machine, please read the manual carefully and acknowledge the structure, operating method and so on. Master the method of repairing and maintenance so that you can operate it correctly and finish the task safely.

In order to improve the quality, the change of some parts which are not conformed to the manual will not be informed separately. Please understand accordingly.

SAFTY FIRST

Instructions contained in warning within this manual marked with a ⚠ symbol concern critical points which must be taken into consideration to prevent possible serious bodily injury, and for this reason you are requested to read all such instructions carefully and follow them without fail.

WARNING IN THE MANUAL

This mark indicates instructions, which must be followed in order to prevent accidents, which could lead to serious bodily injury or death.

IMPORTANT

This mark indicates instructions, which must be followed, or it leads to mechanical failure, breakdown, or damage.

NOTE

This mark indicates hints or directions useful in the use of the product.

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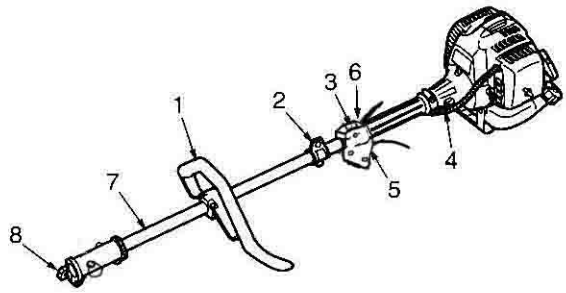
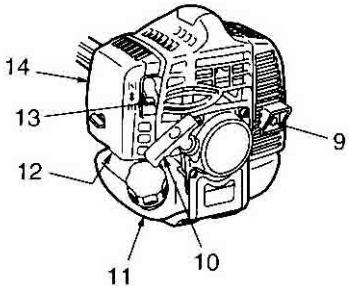
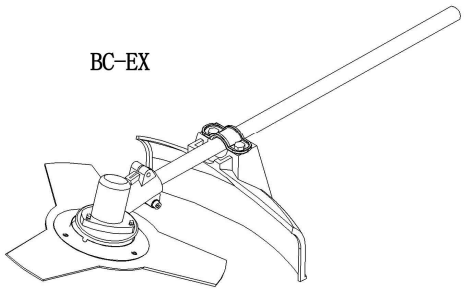
1. Parts location

DGJ260



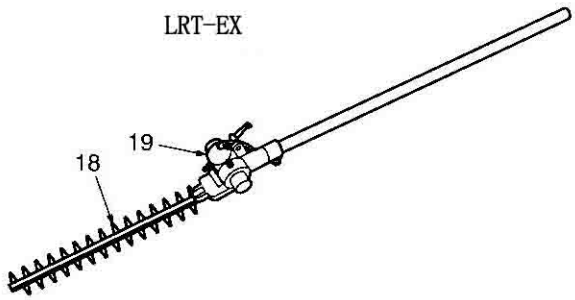


BC-EX

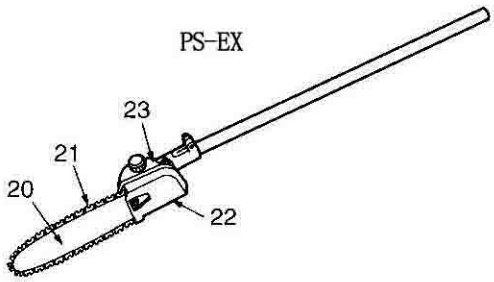


1. Loop handle
2. Shoulder strap hanger
3. Lgnition switch
4. Throttle cable
5. Throttle level
6. Throttle set button
7. Drive shaft housing
8. Knob bolt
9. Spark arrester
10. Starter knob
11. Fuel tank
12. Primer pump
13. Choke level
14. Air cleaner cover
15. Debris guard
16. Gear case
17. Cutting head
18. Blade
19. Gear case
20. Guide bar
21. Saw chain
22. Chain cover
23. Gear case
24. Wheel
25. Blade guard
26. Blade

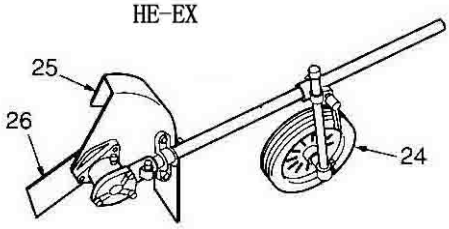
LRT-EX



PS-EX



HE-EX



2. Specification

Engine

Type……Air-cooled2-stroke gasoline
Model…… 1E34FN
Displacement……26mm^3
Max.output……0.9Hp(0.65Kw)at 7500/min-1(rpm)
Idle speed …… 2800 $^{+}_{-}$200/min-1(rpm)
Fuel …… Mixture(Gasoline 50:Oil 1)
Spark plug……Champion RCJ6Y
Fuel tank capacity …… 0.7 L
Durability period…… 100hrs

BC-EX

Overall size(L×W×H) ……1790×250×310mm
Dry weight w/o acc. …… 5.3kg
Transmission ……Centrifugal clutch, rigid drive shaft
Reduction ratio…… 1.357
Cutting head rotating direction……Counter-clockwise(Operator view)

LRT-EX

Overall size(L×W×H) ……2300×250×310mm
Dry weight w/o acc. …… 6.1kg
Transmission ……Centrifugal clutch, rigid drive shaft
Reduction ratio…… 4.0
Cutting head
- Type …… reciprocating Double blade
- Tooth …… 28teeth
- Pitch …… 30mm
- Effective cut width…… 40mm
- Angle adjust range …… 90(45 from cutting head postion aligned shaft)

PS-EX

Overall size(L×W×H) ……2100×250×310mm
Dry weight w/o acc. …… 5.05kg
Transmission ……Centrifugal clutch, rigid drive shaft
Reduction ratio…… 0.94
Cutting head
- Sprocket…… 7T
- Oil pump…… Plunger type

HE-EX

Overall size(L×W×H) ……1810×250×310mm
Dry weight w/o acc. …… 7.2kg
Transmission ……Centrifugal clutch, rigid drive shaft
Reduction ratio…… 2.538
Blade length ……200mm

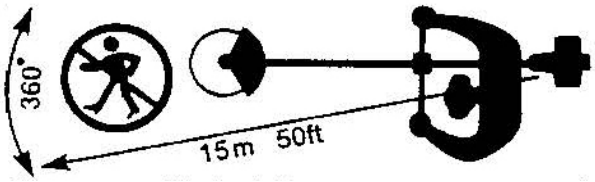
Specifications are subject to change without notice.

3. Warning labels on the machine

Read owner's manual before operating this machine.

Wear head, eye and ear protection.

Warning/Attention



Keep all children, bystanders and helpers 15 meters away from the machine.

If warning label peels off or becomes soiled and impossible to read, you should contact the dealer from which you purchased the product to order mew labels and affix them in the required location(s).

Never modify your machine.
We won't warrant the machine, if you use the remodelled brushcutter or if you don't observe the proper usage written in the manual.

4. Symbols on the machine

For safe operation and maintenance, symbol are carved in relief on the machine. According to these indications, please be careful not to make a mistake.

The port to refuel the “MIX GASOLINE”
Position: FUEL TANK CAP

The direction to close the choke
Position: AIR CLEANER COVER

The direction to open the choke
Position: AIR CLEANER COVER

(PS-EX Only)
MIN MAX

If you turn the rod by screwdriver follow the arrow to the “MAX” position ,the chain oil flow more, and if you turn to the “MIN” position, less.
Position: Bottom of the GEAR CASE

5. For safe operation

1. Read this manual carefully until you completely understand and follow all safety and operating instructions.
2. Keep this manual handy so that you may refer to it later whenever, if you have any questions arise .Also note, if you have any questions which cannot be answered herein, contact the dealer from whom you purchased the product.
3. Always be sure to include this manual when selling, lending, or otherwise transferring the ownership or this product.
4. Never allow children or anyone unable to fully understand the directions given in the manual to use the machine.

WORKING CONDITION

1. When using the product, you should wear proper clothing and protective equipment.

(1) Helmet

(2) Ear protectors

(3) Protection goggles or face protector

(4)Thick work gloves

(5) Non-slip-sole work boots

2. And you should carry with you.
   (1) Attached tools
   (2) Properly reserved fuel
   (3) Spare blade
   (4)Things to notify your working area (rope, warning signs)
   (5) Whistle (for collaboration or emergency)
   (6) Hatchet or saw (for removal of obstacles)
3. Do not wear loose clothing, jewelry, shorttrousers, sandals, or go barefoot. Do not wear anything which might be caught be a moving part of the unit. Secure hair so it is above shoulder length.

WORKING CIRCUMSTANCE

1. Never start the engine inside a closed room or building .Exhaust gases contain dangerous carbon monoxide.

2. Never use the product,

   a. When the ground is slippery or when you can't maintain a steady posture.

   b. At night, at times of heavy fog, or at any other times when your field of vision might be limited and it would be difficult to gain a clear view of the working area.

   c. During rain storms, during lighting storms, at times of strong or gale-force winds, or at any other times when weather conditions might make it unsafe to use the product.

WORKING PLAN

1. You should never use the product when under the influence of alcohol, when suffering from exhaustion or lack of sleep, when suffering from drowsiness as a result of having taken cold medicine or at any other time when a possibility exists that your judgment might be impaired or that you might not be able to operate the product properly and in a safe manner.

2. When planning your work schedule, allow plenty of time to rent. Limited the amount of time over which the product is to be used continuously to somewhere around 30¬40 minutes per session, and taken 10¬20 minutes of rest between work sessions. Also try to keep the total amount of work performed in a single day under 2 hours or less.

⚠ WARNING

1. If you don't observe the working time, or working manner (See "USING THE PRODUCT "), Repetitive Stress Injury (RSI) could occur.
   If you feel discomfort, redness and swelling of your fingers or any other part of your body, see a doctor before getting worse.

2. To avoid noise complaints, in general, operate product between 8 a.m. and 5 p.m. on weekdays and 9 a.m. to 5 p.m. on weekends.

NOTE

Check and follow the local regulations as to sound level and hours of operations for the product.

BEFORE STARTING THE ENGINE

1. The area within a perimeter of 15 m of the person using the product should be considered a hazardous area into which no one should enter. If necessary, yellow warning rope, warning signs should be placed around the perimeter of the area. When work is to be performed simultaneously by two or more persons, care should also be taken to constantly look around or otherwise check for the presence and locations of other people working so as to maintain a distance between each person sufficient to ensure safety.
2. Check the condition of working area to avoid any accident by hitting hidden obstacles such as stumps, stones, cans, or broken glass.

IMPORTANT

Remove any obstacle be fore beginning work.

3. Inspect the entire unit for loose fasteners and fuel leakage. Make sure that the cutting attachment is properly installed and securely fastened.
4. Be sure the debris guard is firmly attached in place.
5. Always use the shoulder strap. Adjust the strap for comfort before starting the engine. The strap should be adjusted so the left hand can comfortably hold the handlebar grip approximately waist high.

STARTING THE ENGINE

1. Keep bystanders and animals at least 15 m away form the operating point. If you are approached immediately stop the engine.
2. The product is equipped with a centrifugal clutch mechanism, so the cutting attachment begins to rotate as soon as the engine is started by putting the throttle into the start position. When starting the engine, place the product onto the ground in a flat clear area and hold it firmly in place so as to ensure that neither the cutting part nor the throttle come into contact with any obstacle when the engine starts.

WARNING

NEVER PLACE THE THROTTLE INTO THE HIGH-SPEED

POSITION WHEN STARTING THE ENGINE.

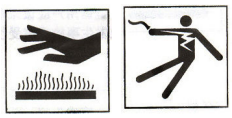
3. After starting the engine, check to make sure that the cutting attachment stops rotating when the throttle is moved fully back to its original position. If it continues to rotate even after the throttle has been moved fully back, turn off the engine and take the unit to your authorized servicing dealer for repair.

USING THE PRODUCT

IMPORTANT

Cut only materials recommended by the manufacturer. And use only for tasks explained in the manual.

1. Grip the handles firmly with both hands using your whole hand. Place your feet slightly apart (slightly further apart than the width of your shoulders) so that your weight is distributed evenly across both legs, and always be sure to maintain a steady, even posture while working.
2. Keep cutting attachment below waist level.
3. Maintain the speed of the engine at the level required to perform cutting work, and never raise the speed of the engine above the level necessary.
4. If the unit starts to shake or vibrate, turn off the engine and check the whole unit. Do not use it until the trouble has been properly corrected.
5. Keep all parts of your body away from rotating cutting attachment and hot surfaces.



6. Never touch the muffler, spark plug, or other metallic parts of the engine while the engine is in operation or immediately after shutting down the engine. Doing so could result in serious burns or electrical shock.

• IF SOMEONE COMES

1. Guard against hazardous situations at all times. Warn adults to keep pets and children away from the area. Be careful if you are approached. Injury may result from flying debris.
2. If someone calls out or otherwise interrupts you while working, always be sure to turn off the engine before turning around.

MAINTENANCE

1. In order to maintain your product in proper working order, perform the maintenance and checking operations described in the manual at regular intervals.
2. Always be sure to turn off the engine before performing any maintenance

or checking procedures.

⚠ WARNING

The metallic parts reach high temperatures immediately after stopping the engine.

3. When replacing the cutting attachment or any other part, or when replacing the oil or any lubricant, always be sure to use only authorized dealer products.
4. In the event that any part must be replaced or any maintenance or repair work not described in this manual must be performed, please contact a representative from the store nearest authorized servicing dealer for assistance.
5. Do not use any accessory or attachment other than those bearing the company mark and recommended for the unit.
6. Under no circumstances should you ever take apart the product or alter it in any way. Doing so might result in the product becoming damaged during operation or the product becoming unable to operation properly.

HANDLING FUEL

1. The engine of product is designed to run on a mixed fuel, which contains highly flammable gasoline. Never store cans of fuel or refill the tank or the unit in anyplace where there is a boiler, stove, wood fire, electrical sparks, welding sparks, or any other source of heat or fire which might ignite the fuel.

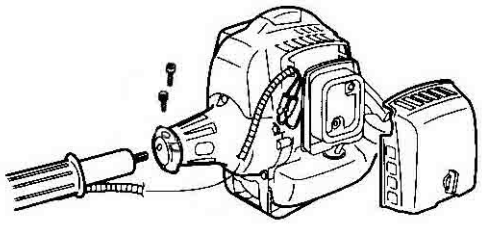
2. Never smoke while operating the unit or refilling its fuel tank.
3. When refilling the tank, always turn off the engine and allow it to cool down. Take a careful look around to make sure that there are mo sparks or open flames anywhere nearby before refuelling.
4. Wipe spilled fuel completely using a dry rag if any fuel spillage occurs during refuelling.
5. After refuelling, screw the fuel cap back tightly onto the fuel tank and then carry the unit to a spot 3m or more away from where it was refuelled before turning on the engine.

TRANSPORTATION

1. When hand-carrying the product, cover over the cutting part if necessary, lift up the product and carry it paying attention to the blade.
2. Never transport the product over rough roads over long distances by vehicle without removing all fuel from the fuel tank. If doing so, fuel might leak from the tank during transport.

6. Set up

MOUNTING ENGINE



1. Push the drive shaft housing toward the clutch housing and rotate it by hand to check that the drive shaft is engaged with the gears.
2. Insert the drive shaft housing into the clutch housing until it bottoms, and align the positioning holes on the clutch housing and the shaft tube and install the screw. When difficult to engage, twist the engine slightly.
3. Fasten the clamp securely with two screw.

IMPORTANT

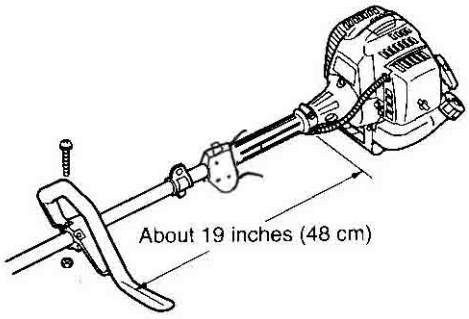
Tighten the screws gradually by turns.

CONNECTING SWITCH WIRES

•Connect the switch wires between the engine and the main until. Pair the wires of the same color**.**

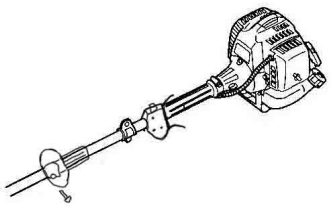
INSTALLING HANDLE

(BC-EX, LRT-EX only)



• Install the handle to the shaft tube and clamp it at a location that is comfortable to you.

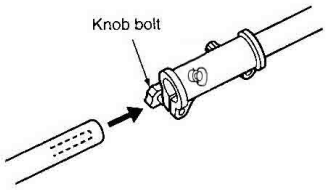
(PS-EX only)



• Insert the grip to the shaft tube.

• Fasten the clamps with screws.

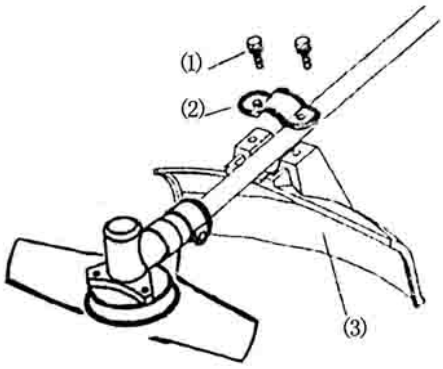
JOINT ATTACHMENT



• Insert the attachment to the main shaft.
• Tighten the knob bolt securely.

Set up (BC-EX only)

INSTALLING DEBRIS GUARD



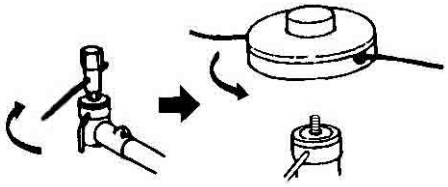
（1）Screw

(2) Plate

(3) Debris guard

•Put the debris guard on the gearbox, attach it with the 2 screws and hardware provided.

INSTALLING CUTTING HEAD



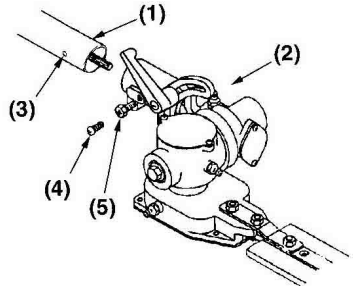
1. While locking the gear shaft, by inserting the supplied tool into the upper holder on the gearbox, loose and remove the hexagon nut (left-handed).
2. Then screw in the cutting head to the gear shaft over the holders. Hand-tighten it securely.

BALANCE UNIT

1. Put on strap and attach unit to strap.
2. Slide clamp up or down until balances with head just touching on the ground.

Set up (LRT-EX only)

ATTACHING THE TRIMMING MECHANISM



(1) Main pipe
(2) Trimming mechanism
(3) Screw hole
(4) Screw
(5) Fastening bolt

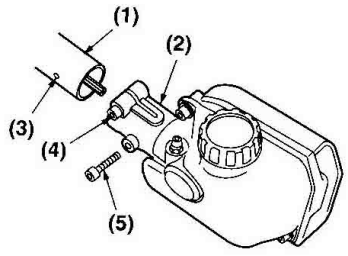
1. Remove the screw screwed into the end of the trimming mechanism.
2. Insert the end of the trimming mechanism into the main pipe.
3. Line up the hole on the end of the trimming mechanism into which the screw is to be inserted with the hole on the main pipe, and screw the screw firmly in.
4. Using a wrench, screw in the bolt provided to fix the trimming mechanism into place.

BALANCE UNIT

1. Put on strap and attach unit to strap.
2. Depending on the working posture, slide clamp up or down until balances and the strap fits your body.

Set up (PS-EX only)

ATTACHING THE PRUNING MECHANISM



(1) Main pipe

(2) Gear case

(3) Screw hole

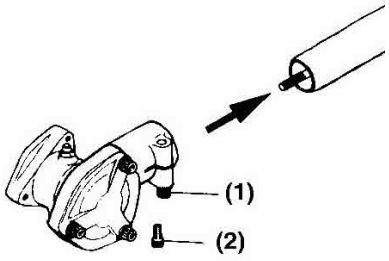
(4) Fastening bolt

(5) Bolt

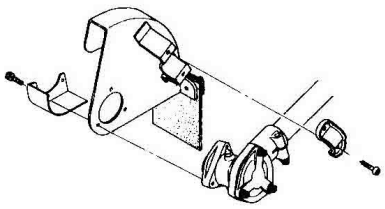
1. Remove the cap on the end of the main pipe.
2. Remove the screw screwed into the end of the gear case.
3. Insert the end of the trimming mechanism into the main pipe.
4. Line up the hole on the end of the gear case into which the screw is to be inserted with the hole on the main pipe, and screw the screw firmly in.
5. Using a wrench, screw in the bolt provided to fix the mechanism into place.

Set up (HE-EX only)

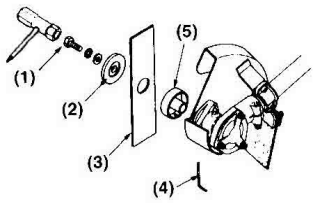
1. Insert the drive shaft into the clutch drum, then attach the gearbox to the shaft tube as aligning the positioning holes. Wipe out grease on the tube and the inside of the gearbox. Screw in the lock screw and fasten the clamp bolt firmly.
2. Install the blade guard to the gear case with the provided 3 screws, then clamp itto the shaft tube with 2 screws.



(1) Clamp bolt
(2) Lock screw

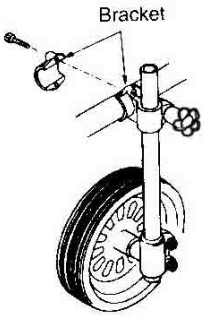


3. Place the blade between the cutter holders (A) and (B) while locking the gear shaft by putting the bar, one of the tools provided, through the key holes on the holder (A) and the gear case. Use the socket and the screwdriver as shown in the picture below to tighten the blade mounting bolt. (SE3)



(1) Blade mounting bolt (Left-handed)
(2) Cutter holder(B)
(3) Blade
(4) Bar
(5) Cuter holder (A)

4. Split the bracket and install the wheel assembly to the shaft tube and clamp at a position best for your job.



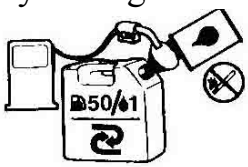
7. Fuel and chain oil

■FUEL

⚠ WARNING

- Gasoline is very flammable. Avoid smoking or bringing any flame or sparks near fuel. Make sure to stop the engine and allow it cool before refuelling the unit. Select outdoor bare ground for fuelling and move at least 3 m (10ft) away from the fuelling point before starting the engine.
- The engines are lubricated by oil specially formulated for air-cool 2-xycle gasoline engine use. If oil is not available, use an anti-oxidant added quality oil expressly labelled for air-cooled 2-cycle engine use (JASO FC GEADE OIL or ISO EGC GEADE).
- Do not use BIA or TCW

  (2-stroke water-cooling type)mixed oil.



■ RECOMMENDED MIXING RATIO GASOLINE 50 : OIL 1

- Exhaust emission are controlled by the fundamental engine parameters and components (eq., carburetion, ignition timing and port timing), without addition of any major hardware or the introduction of an inert material during combustion.
- These engines are certified to operate on unleaded gasoline.

- Make sure to use gasoline with a minimum octane number of 89RON (USA/Canda:87AL).
- If you use a gasoline of a lower octane value than prescribed, there is a danger that the engine temperature may rise and an engine problem such as piston seizing may consequently occur.
- Unleaded gasoline is recommended to reduce the contamination of the sir for the sake of your health and the environment.
- Poor quality gasolines or oils may damage sealing rings, fuel lines or fuel tank of the engine.

■ HOW TO MIX FUEL

⚠ WARNING

•Pay attention to agitation.

1. Measure out the quantities of gasoline and oil to be mixed.
2. Put some of the gasoline into a clean, approved fuel container.
3. Pour in all of the oil and agitate well.
4. Pour in the rest of gasoline and agitate again for at least one minute. As some oils may be difficult to agitate depending on oil ingredients, sufficient agitation is necessary for the engine to last long. Be careful that, if the agitation is insufficient, there is an increased danger of early piston seizing due to abnormally lean mixture.
5. Put a clear indication on the outside of the container to avoid mixing up with gasoline or other containers.
6. Indicate the contents on outside of container for easy identification.

■ FUELING THE UNIT

1. Untwist and remove the fuel cap. Rest the cap on a dustless place.
2. Put fuel into the fuel tank to 80% of the full capacity.
3. Fasten the fuel cap securely and wipe up any fuel spillage around the unit.

⚠ WARNING

1. **Select flat and bare ground for fueling.**
2. **Move at least 10 feet (3 meters) away from the fueling point before starting the engine.**
3. **Stop the engine before refuelling the unit. At that time, be sure to sufficiently agitate the mixed gasoline in the container.**

■ FOR YOUR ENGINE LIFE, AVOID:

1. FUEL WITH NO OIL (RAW GASOLINE)-It will cause severe damage to the internal engine parts very quickly.

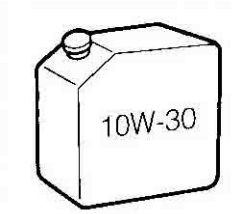
2. GASOHOL-It can cause deterioration of rubber and/or plastic parts and disruption of engine lubrication.
3. OIL FOR 4-CYCLE ENGINE USE –It can cause spark plug fouling, exhaust port blocking, or piston ring sticking.
4. **Mixed fuels which have been left unused for a period of one month or more** may clog the carburettor and result in the engine failing to operate properly.
5. In the case of storing the product for a ling period of time, clean the fuel tank after rendering it empty. Next ,activate the engine and empty the carburettor of the composite fuel.
6. In the case of scrapping the used mixed oil container, scrap it inly at an authorized repository site.

NOTE

As for details of quality assurance, read the description in the section Limited Warranty carefully. Moreover, normal wear and change in product with no functional influence are not covered by the warranty, Also, be careful that, if the usage in the instruction manual is not observed as to the mixed gasoline, etc. described therein, it may not be covered by the warranty.

■ **CHAIN OIL**

Use motor oil SAE #10W-30 all year round
or SAE#30~#40 in summer and SAE #20 in winter.



NOTE

Do not use wasted or regenerated oil that can cause damage to the oil pump.

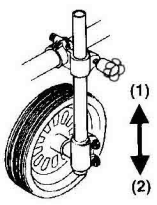
8. Operation

STARTING ENGINE

(HE-EX only)
The engine stick edger is designed for edging lawn in gardens, parks, roadsides and so on.
Before starting the engine, take the operating position and adjust the handle position and the wheel height as necessary.

ADJUSTING WHEEL HEIGHT

- Loosen the clamp lever and change the wheel height to obtain desire cutting depth.

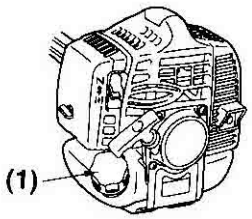


(1) Deep cut
(2) Shallow cut

⚠ WARNING

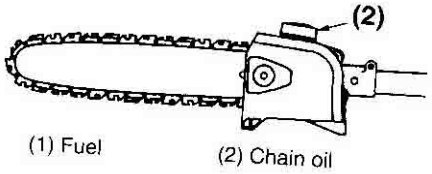
Never adjust wheel height with the engine running.

⚠ WARNING



The cutting head will start rotating upon the engine.

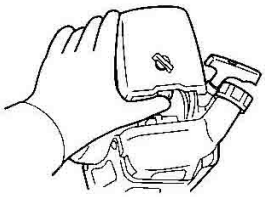
1. Feel fuel into the fuel tank
   and tighten the cap securely.



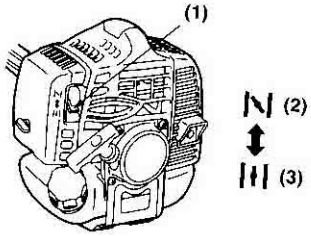
(PS-EX only)

Feed the chain oil into the oil tank
and tighten the cap securely, too.

2. Rest the unit on a flat, firm place. Keep the cutting head of the ground and clear of surrounding objects, as it will start rotating upon starting of the engine.
3. Push the primer pump several times
   until overflown fuel flows out
   in the clear tube.



4. Move the choke lever to the closed position.

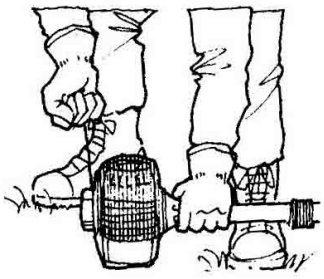


(1) Choke lever

(2) Close

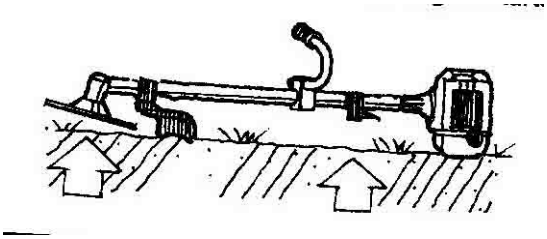
(3) Open

5. Set the ignition switch (a) to the “I” position.
   Place the unit on a flat, firm place.
   Keep the cutting head clear of everything around it.
6. While holding the unit firmly,
   pull out the starter rope quickly
   until engine fires.



⚠ WARNING

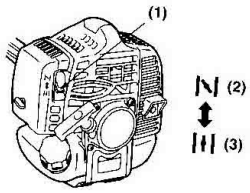
The product is equipped with a centrifugal clutch mechanism, so the cutting attachment begins to rotate as soon as the engine is started by putting the throttle into the start position. When starting the engine, place the product onto the ground in a flat clear area and hold it firmly in place so as to ensure that neither the cutting part nor the throttle come into contact with any obstacle when the engine starts.



IMPORTANT

• Avoid pulling the rope to its end or returning it by releasing the knob. Such actions can cause starter failures.

7. Move the choke lever downward to open the choke. And restart engine.



(1) Choke lever
(2) Close
(3) Open

Allow the engine to warm up for a several minutes before starting operation.

NOTE

1. When restarting the engine immediately after stopping it, leave the choke open.
2. Overchoking can make the engine hard to start due to excess fuel. When the engine failed to start after several attempts, open the choke and repeat pulling the rope, or remove the spark plug and dry it.

STOPPING ENGINE

1. Release the throttle lever and run the engine for half a minute.
2. Shift the ignition switch (a) to the STOP position.

IMPORTANT

• Except for an emergency, avoid stopping the engine while pulling the throttle lever.

ADJUSTING IDLING SPEED

1. When the engine tends to stop frequently at idling mode, turn the adjusting screw clockwise.
2. When the cutting head keeps rotating after releasing the trigger, turn the

adjusting screw counter-clockwise.

NOTE

- Warm up the engine before adjusting the idling speed.

Operation (BC-EX only)

CUTTING WORK (LINE HEAD USAGE)

WARNING

1. Always wear eye protection such as safety goggles. Never lean over the rotating cutting head. Rocks or other debris could be thrown into eyes and face and cause serious personal injury.
2. Keep the debris guard in place at all times when the unit is operated.

TRIMMING GEASS AND WEEDS

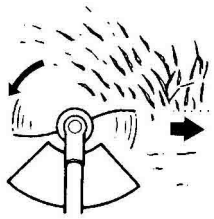
- Always remember that the TIP of the line does cutting. You will achieve better results by not crowding the line into the cutting area. Allow the unit to trim at its own pace.

1. Hold the unit so the head

   is off the ground and is

   tilted about 20 degrees

   toward the sweep direction.



2. You can avoid thrown debris by sweeping from your left to the right.
3. Use a slow, deliberate action to cut heavy growth. The rate of cutting motion will depend on the material being cut. Heavy growth will require slower action than will light growth.
4. Never swing the unit so hard as you are in danger if losing your balance of control of the unit.
5. Try to control the cutting motion with the hip rather than placing the full workload on the arm and hands.
6. Take precautions to avoid wire, grass and dead, dry, long-stem weeds from wrapping around the head shaft. Such materials can stall the head and cause the clutch to slip, resulting in damage to the clutch system if repeated frequently.

ADJUSTING THE LINE LENGTH

- Your brush cutters are equipped with a semi-autotype nylon line head that allows the operator to advance the line without stopping the engine.

When the line becomes short, lightly tap the head on the ground while running the engine at full throttle.

- Each time the head is bumped, the line advances about 1 inch(25.4mm). For better effect, tap the head on bear ground or hard soil. Avoid bumping in thick, tall grass as the engine may stall by overload.

CHOOSE THE BLADE

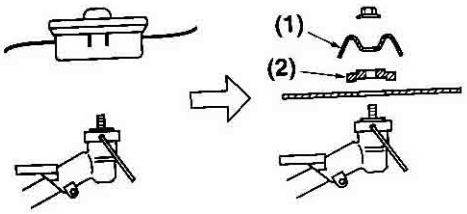
Choose a suitable recommended cutting attachment according to the object to be cut.

- When replacing blade always be sure to use products, which have been certified.

⚠ WARNING

When sharpening, removing, or reattaching the blade, be sure to wear thick, sturdy gloves and use only proper tools and equipment to prevent injury.

SET UP



(1) Cover

(2) Holder

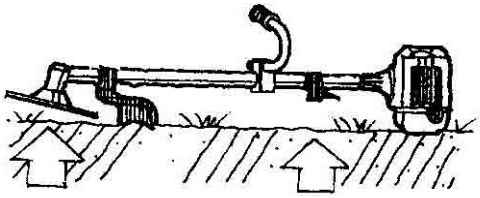
1. Detach the line head assembly completely.
2. Put on the blade, making the marked side face the holder, put on the outer holders, and fasten the blade with the blade nut.

STARTING THE ENGINE

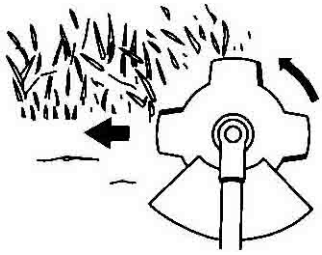
Please refer to the manual for safe operation.

⚠ WARNING

The product is equipped with a centrifugal clutch mechanism, so the cutting attachment begins to rotate as soon as the engine is started by putting the throttle into the start position. When starting the engine, place the product onto the ground in a flat clear area and hold it firmly in place so as to ensure that neither the cutting part nor the throttle come into contact with any obstacle when the engine starts.



CUTTING METHOD



a) Use the front left side cutting.

b) Guide the blade from your right to left with it tilted slightly to your left.

c) When mowing a wide area, start working from from your left end to avoid interference of cut grass.

d) The blade may be seized by weeds if the engine speed is too low, or the blade cuts too deep into weeds. Adjust the engine speed and cutting depth according to the condition of object.

⚠ **WARNING**

- **If the grass or other object gets caught in the blade, or if the unit starts to shake or vibrate, turn off the engine and check the whole unit. Change the blade if it has been damaged.**
- **Turn off the engine and make sure the blade has completely stopped before checking the blade, and removing any object got caught in.**

OPERATION

1. Check the bolt to fasten the blade and be sure the bolt has no fault, and no abrasion.
2. Be sure that the blade and the holder have been fastened according to instruction and that the blade turns smoothly without abnormal noise.

⚠ **WARNING**

- **The rotating parts fastened incorrectly may cause serious accident to**

the operator.

- **Make sure that the blade is not bent, warped, cracked, broken or damaged.**
- **if you find any error to the blade, discard it and replace with a new one, which is certified.**

By using the shoulder strap,

hang the unit on your right side.

Adjust the strap length so that

the cutting head may become parallel to the ground.

⚠ WARNING

Make sure to use shoulder strap and debris guard. If not, it is very dangerous when you slip or lose your balance.

⚠ WARNING

CONTROLLING BLADE BOUNCE

Kick out can cause serious personal injury. Carefully study this section. It is important that you understand what causes kick out, how you can reduce the chance of kick out and how you can remain in control of the unit if kick out does occur.

1. What causes kick out:
   - Kick out can occur when the moving blade contacts an object that it cannot cut. This contact causes the blade to stop for an instant and then suddenly move or "bounce" away from the object that was hit. The operator or any person nearby if the blade contacts any part of the body.

2. How you can reduce the chance of kick out:

a. Recognize that kick out can happen. By understanding and knowing about bounce, you can help eliminate the element of surprise.

b. Cut fibrous weeds and grass only. Do not let the blade contact materials it cannot cut such as hard, woody vines and bushes or rocks, fences, metal, etc.

c. Be extra prepared for bounce if you must cut where you cannot see the blade making contact such as in areas of dense growth.

d. Keep the blade sharp. A dull blade increase the chance of bounce.

e. Avoid feeding the blade too rapidly. The blade can bounce away from material being cut if the blade is fed faster than its cutting capability.

f. Cut only from your right to your left.

g. Keep your path of advance clear of material that has been cut and other debris.

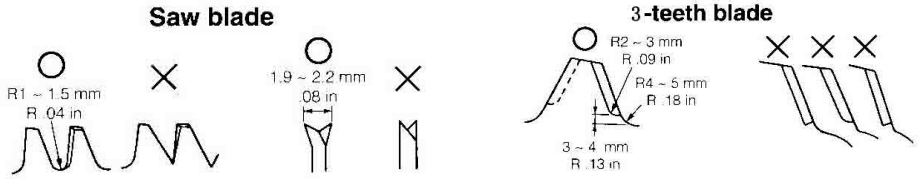
3. How you can maintain the best control:
   a. Keep a good, firm grip on the unit with both hands. A firm grip can help neutralize bounce. Keep your right and left hands completely around the respective handles.
   b. Keep both feet spread apart in a comfortable stance and yet braced for the possibility that the unit could bounce. Do not overreach. Keep firm footing and balance.

MAINTENANCE

BLADE

- Check the blade and the fasteners for looseness cracking, or bending.
- Check the cutting edges and reform with s flat file.

Point:



1. Keep the end corner sharp.
2. Round the root of the edge, using a round file.
3. Do not use water when using a grinder.

IMPORTANT

- It is recommended that filing should be done by professionals.
- Especially regarding filing the saw blade, leave it to the professionals.

TRANSPORTING THE UNIT

- When you finish cutting in one location and wish to continue work in another spot, turn off the engine, lift up the unit and carry it, paying attention to the blade.
- Never forget to place the protective cover over the blades.
- When transporting the unit over long distances, detach the blade and fasten the unit by ropes.

Operation (LRT-EX only)

WARNING

This product is equipped with extremely sharp blades, and when used

improperly these blades can be extremely dangerous and improper handing can cause accidents, which may in turn lead to serious injury or death. For this reason, you should always be careful to follow the following instructions when using your trimmer.

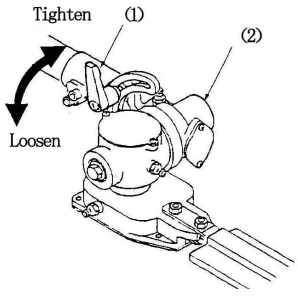
- Never hold the trimmer in a way in which the blades are pointed towards someone else.
- Never allow the blades to come into proximity with your body while the engine of the trimmer is in operation.
- Always be sure to turn off engine before changing the angle of the blades, or at any other time when coming into close proximity with the blades.
- Always wear work gloves made of leather or some other sturdy material when using the trimmer.
- Always place the blade cover provided with the trimmer over the blades when not in use.
- **Falling branches may fall onto the face or into the eyes, resulting in injuries, scratches, and cuts, and for this reason you should always be sure to wear a helmet and face protector when using your trimmer.**

IMPORTANT

The thickness of branches, which may be cut using this trimmer, is limited to up to approximately 3/16″ (5mm).
Never try to cut branches thicker than this, as doing so may result in damage to the trimmer.

Adjusting the angle of the cutting blades

(1) Clamp lever (2) Trimming mechanism

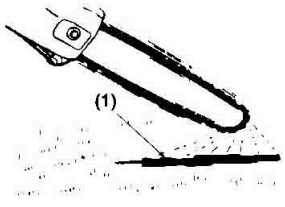


1. Stop the engine.
2. Turn the bolt located on the top of the trimming mechanism counter-clockwise to loosen it.
3. Adjust the angle of the blades to the desired angle, and then fix the bolt firmly back into place.

Operation (PS-EX only)

Checking oil supply

After starting the engine, run the chain



(1) Chain oil

at medium speed and see if chain oil
has scattered off, as shown in the figure.

NOTE

The oil reservoir has a capacity sufficient to provide about 40minutes of cutting time (when set to deliver the minimum flow rate, or about as long as you'll get from a tank of fuel). Be sure to refill the oil tank every time when refuelling the saw.

Adjusting Oil Flow Rate

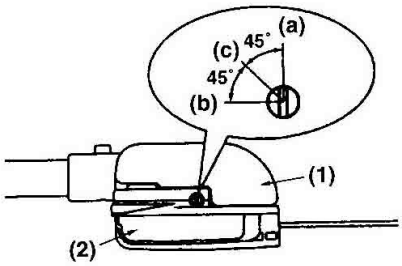
WARNING

Never fill the oil reservoir nor adjust the oiler with the engine running.

IMPORTANT

An increase in bar oil flow rate will speed oil consumption, requiring more frequent checks on the oil reservoir.
To ensure sufficient lubrication, it may be necessary to check the oil level more frequently than at fuel tank refills.
The guide bar and chain are lubricated automatically by a pump that operates whenever the chain rotates. The pump is set at the factory to de liver a minimum flow rate, but it can be adjusted in the field. A temporary increase in oil flow is often desirable when cutting things like hardwood or wood with a lot of pitch.
Adjust the pump as follows:
1. Stop the engine and make sure the stop switch is in the OFF position.

2. Place the unit on its side
with the oil reservoir up.



(1) Oil tank (2) Chain cover

IMPORTANT

The oil flow adjusting screw must be pressed in slightly in order to turn. Failure to do so could damage the pump and screw.

3. With a screwdriver, push in on the oil flow rate adjusting screw and turn in the desired direction (there are three incremental settings):
   (a) Clockwise-decrease lubrication
   (b) Counter clockwise-increase lubrication
   (c) Middle

⚠ WARNING

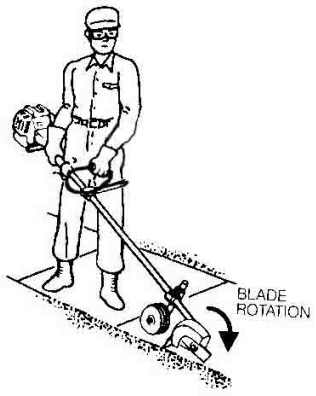
- **Always wear work gloves made of leather or some other sturdy material when using the polesaw.**
- **Falling branches may fall onto the face or into the eyes, resulting in injuries, scratches, and cuts, and for this reason you should always be sure to wear a helmet and face protector when using your polesaw.**

Operation (HE-EX only)

⚠ WARNING

- **Always wear eye protection such as safety goggles. Never lean over the rotating cutting head. Rocks or other debris could be thrown into eyes and face and cause serious personal injury.**
- **Keep the blade guard and the mad guard attached in place at all times when unit is operated.**
- **Before starting a job, check the area and remove all obstacles and objects that could be thrown by the blade.**
- **Do not adjust the wheel height or try to remove anything entangled to the blade with the engine running.**

1. Before starting the engine, adjust the wheel height for desired cutting depth.
2. Before start a job, plan your direction of travel so that you can always hold the edger on you right side and can walk on a hard surface as much as possible.
3. When starting to edge, run the engine at full throttle, and slowly have the blade cut into the edge groove.



NOTE

- Do not use the HE-EX to make a new groove into the ground. Such usage will not be covered by our company warranty.

9. Maintenance

WARNING

- **Make sure that the engine has stopped and is cool before performing any service to the machine. Contact with moving cutting head or hot muffler may result in a personal injury.**

AIR FILTER

- The air filter, if clogged, will reduce the engine performance.

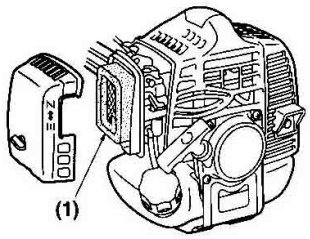
  Check and clean the filter element in warm,

  soapy water as required.

  Dry completely before installing.

  If the element is broken or shrunk,

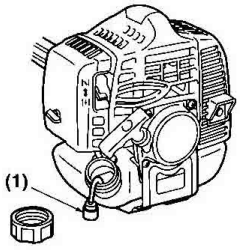
  replace with a new one.



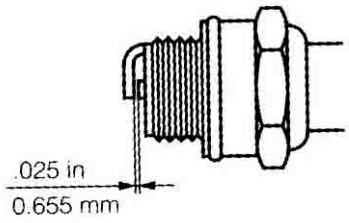
(1) Air filter

FUEL FILTER

- When the engine runs short of fuel supply, check the fuel cap and the fuel filter for blockage.



(1) Fuel filter



SPARK PLUG

- Starting failure and misfiring are often caused by a fouled spark plug. Clean the spark plug and check that the plug gap is in the correct range. For a replacement plug, use the correct type specified.

IMPORTANT

- Note that using any spark plug other than those designated may result in the engine failing to operate properly or in the engine becoming overheated and damaged.
- To install the spark plug, first turn the plug until it is finger tight, then tighten it a quarter turn more with a socket wrench.
  TIGHTENING TORQUE: (9.8-11.8N.m.)

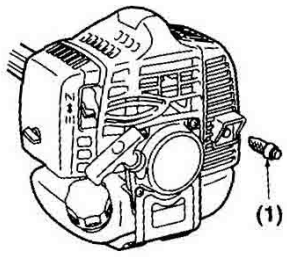
MUFFLER

WARNING

- Inspect periodically, the muffler for loose fasteners, any damage or corrosion. If any sign of exhaust leakage is found, stop using the machine and have it repaired immediately.
- Note that failing to do so may result in the engine catching on fire.

SPARK ARRESTER

- The muffler is equipped with a spark arrester to prevent red hot carbon from flying out of the exhaust outlet.
  Periodically inspect and clean as necessary with a wire brush.



(1) Spark arrester

INTAKE AIR COOLING VENT

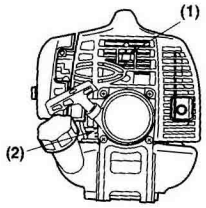
WARNING

- Never touch the cylinder, muffler, or spark plugs with your bare hands immediately after stopping the engine. The engine can become very hot when in operation, and doing so could result in severe burns.
- When checking the machine to make sure that it is okay before using it, check the area around the muffler and remove any wood chips or leaves which have attached themselves to the brushcutter. Failing to do so could cause the muffler to become overheated and that in turn could cause the engine to catch on fire. Always make sure that the muffler is clean and

free of wood chips, leaves, and other waste before use.

- Check the intake air cooling vent and the area around the cylinder cooling fins after every 25 hours of use for blockage, and remove any waste which has attached itself to the brushcutter. Note that it is necessary to remove the engine cover shown in order to be able to view the upper part of the cylinder.

IMPORTANT

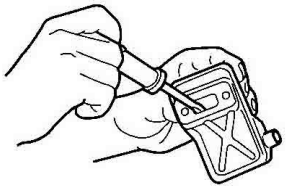


(1) Cylinder
(2) Intake air cooling vent (back)

- If waste gets stuck and causes blockage around the intake air cooling vent or between the cylinder fins, it may cause the engine to overheat, and that in turn may cause mechanical failure on the part of the brushcutter.

PROCEDURES TO BE PERFORMED AFTER EVERY 100 HOURS OF USE

1. Remove the muffler, insert a screwdriver into the vent, and wipe away any carbon buildup on the muffler exhaust vent and cylinder exhaust port at the same time.
2. Tighten all screws, bolts, and fittings.
3. Check to see if any oil or grease has worked its way in between the clutch lining and drum, and if it has, wipe it away using oil-free, lead-free gasoline.



Maintenance (BC-EX only)

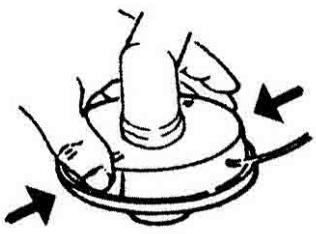
REFILLING TRIMMING LINE

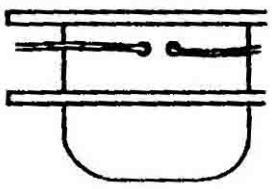
1. For replacement line, use a diameter of 2 -2.5mm. Avoid using a larger line as it may cut down the trimming performance.

WARNING

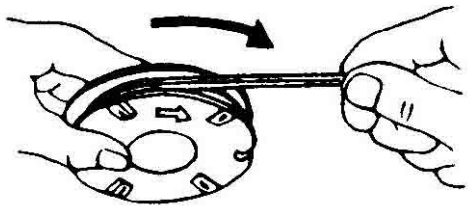
For safety reasons, do not use metal reinforced line.

2. Pinch the slotted area on the both sides of the spool housing to unhook the bottom cap.





3. Take out the spool and pull off the old line. Put one end of new line through the spool holes and pull it until the length is equal between each part of the line.
4. Wind up the line in the correct direction as indicated on the spool.



5. Hook each end of the line, in the slot, on the edge of the spool, and then put the ends through the eyelets on the housing. Make sure that the spring and the washers are in place.
6. While holding the spool against the housing, pull the line ends to release them from the slot.
7. Line up the slot on the bottom cap with the hook on the housing; press the cap against the housing until it clicks.

GEAR CASE

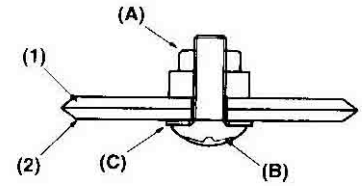
- The reduction gears are lubricated by multipurpose, lithium-based grease in the gear case. Supply new grease every 25 hours of use or more often depending on the job condition.
- Remove the cutter holders before installing new grease to arrange for old grease to exit.

Maintenance (LRT-EX only)

BLADES

- When refilling the tank or resting, it is often a good idea to use the time to oil the cutting blades.
- If a gap exists between the upper and lower blades, follow the procedure below to adjust them so that they fit more closely together.

1. Loosen lock nut (A) as shown in the diagram.
2. Tighten screw (B)fully, and then turn one-third to one half of a rotation backward.



(1) Upper blade (2) Lower blade

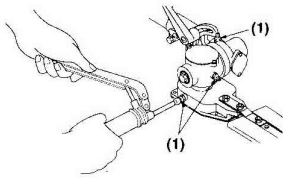
3. While holding onto the screw to keep it in position, tighten the lock nut.
4. Check to make sure that the flat washer (C)is loose enough so that it may be turned by pressing on it with a finger.

NOTE

Screwing in the screw too tightly may make it impossible for the blades to move. Conversely, not screwing in the screw tightly enough may make the blades of the trimmer feel dull and cause leaves and branches to become caught in the blades of the trimmer.

GEAR CASE

The reduction gears are lubricated by multipurpose, lithium-based grease in the gear case. Supply new grease every 25 hours of use or more often depending on the job condition.



(1) Grease fitting

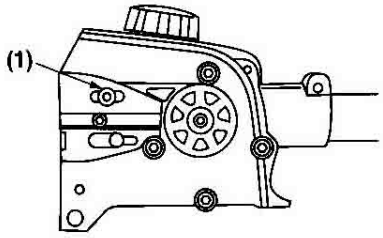
When adding lubricant, use a grease gun to insert lubricant into the three grease nipples located on the gear case.

Maintenance (PS-EX only)

OILING PORT

Dismount the guide bar

and check the oiling port for clogging.

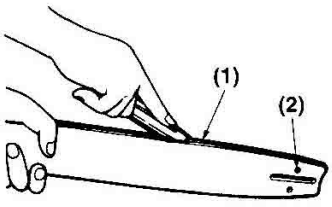


(1) Oiling port

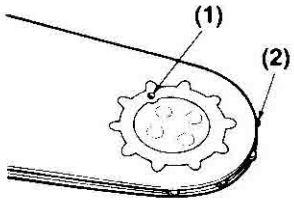
GUIDE BAR

Remove sawdust in the bar groove and the oiling port.

(Type: Sprocket nose)



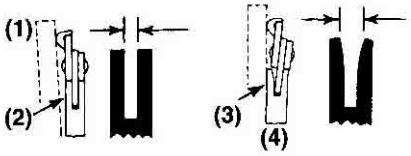
(1) Groove (2) Oiling port



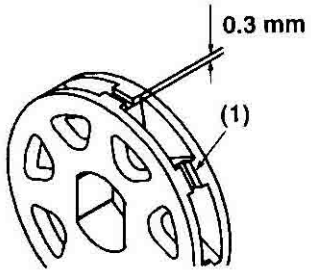
(1) Grease port (2) Sprocket

Grease the nose sprocket from the feeding port on the tip of the bar.

The bar rail should always be a square. Check for wear of the bar rail. Apply a ruler to the bar and the outside of a cutter. If a gap is observed between them, the rail is normal. Otherwise, the bar rail is worn. Such a bar needs to be corrected or replaced.



(1) Ruler (2) Gap
(3) No gap (4) Chain tilts



(1) Sprocket

SPROCKET

Check for extensive wear, and replace it when the teeth are worn over 0.3mm

SAW CHAIN

⚠ WARNING

It is very important for smooth and safe operation to keep the cutters always sharp.

Your cutters need to be sharpened when:

- Sawdust becomes powder-like.
- You need extra force to saw in.
- The cut way does not go straight.
- Vibration increase.
- Fuel consumption increase.

Cutter setting standards:

⚠ WARNING

Be sure to wear safety gloves.

Before filling:

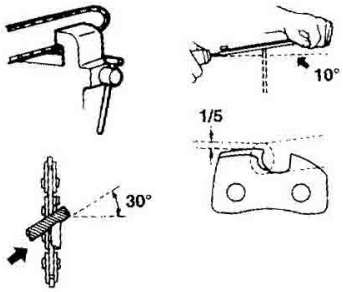
- Make sure the sae chain is held securely.
- Make sure the engine is stopped.
- Use a round file of proper size for your chain.

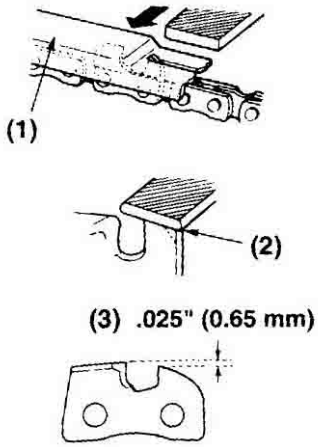
Place your file on the cutter and push straightforward.

Keep the file position as illustrated.

After every cutter has been set, check the depth gauge and file it to the proper level as illustrated.

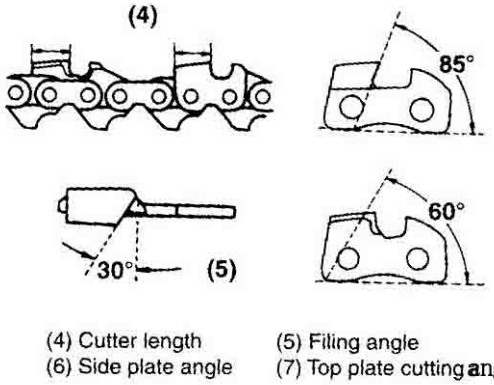
(1) Appropriate gauge checker
(2) Make the shoulder round
(3) Depth gauge standard



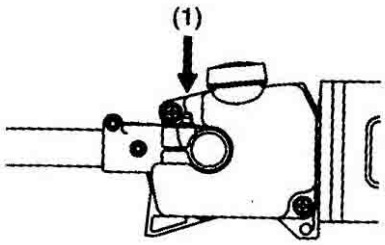


⚠ WARNING

Be sure to round off the front edge to reduce the chance of kickback or tie-starp breakage.
Make sure every cutter has the same length and edge angles as illustrated.



(4) Cutter length (5) Filing angle
(6) Side plate angle (7) Top plate cutting angle



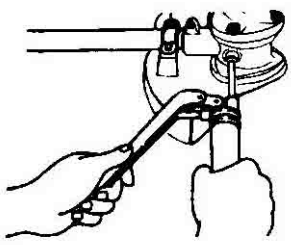
(1) Grease fitting

GEAR CASE

The reduction gears are lubricated by multipurpose, lithium-based grease in the gearcase.
Supply new grease every 25 hours of use or more often depending on the job condition.
When adding lubricant, use a grease gun to insert lubricant into the three grease nipples located on the gearcase.

Maintenance (HE-EX only)

GEAR CASE



- The reduction gears are lubricated by multipurpose, lithium-based grease in the gear case. At every 20 hours of use, supply the gear case with new grease.
- Remove the cutter holders before installing new grease to arrange for old grease to exit.

NOTE

- When removing and installing the cutter holder (a), use care not to allow any dirt and dust entering in to the gear case.

10. Storage

Aged fuel is one of major causes of engine starting failure. Before storing the unit, empty the fuel tank and run the engine until it uses all the fuel left in the fuel line and the carburettor. Store the unit indoor taking necessary measures for rust prevention.

11. Troubleshooting guide

Case 1. Starting failure

CHECK	PROBABLE CAUSES	ACTION
Fuel tank	Incorrect fuel	Drain it and use correct fuel
Fuel filter	Fuel filter is clogged	Clean
Carburettor adjustment screw	Out of normal range	Adjust to normal range
Sparking (no spark)	Spark plug is fouled/wet Plug gap is incorrect	Clean /dry Correct (GAP:0.6-0.7)
Spark plug	Disconnected	Retighten

Case 2. Engine starts but does not keep running/hard re-starting

CHECK	PROBABLE CAUSES	ACTION
Fuel tank	Incorrect fuel or staled fuel	Drain it and use correct fuel
Carburettor adjustment screw	Out of normal range	Adjust to normal range
Muffler, cylinder(exhaust port)	Carbon is built-up	Wipe away
Air cleaner	Clogged with dust	Wash
Cylinder fin, fan cover	Clogged with dust	Clean

When your unit seems to need further service, please consult with our company service shop in your area.

DGJ260 Petrol LIne Trimmer

951677

Please dispose of packaging for the product in a responsible manner. It is suitable for recycling. Help to protect the environment, take the packaging to the local amenity tip and place into the appropriate recycling bin.

Only for EU countries

Do not dispose of electric tools together with household waste material! In observance of European Directive 2002/96/EC on waste electrical and electronic equipment and its implementation in accordance with national law, electric tools that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

Axminster Reference No: **DGJ260**

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